

5 Features
Tight margin justification is an optional feature.

6
Tight margin justification

All controls are at the fingertips of the typist.

7 cards or cards, written on

The important point, however, is that the keystrokes have been captured and can be punched into cards, written on tape, conveyed via magnetic tape to another computer, or transmitted to any other terminal on the system.

d430
System Capabilities
DOCUMENT 430 **DELETED**

STORED
IDENT PLEASE

At any time ... you can have a document ready for publication, a computer program ready for assembly and execution, a file record completely updated ... only minutes after the latest change was made.

At all times ... your programmers and technical writers can have a new, powerful entry/editing capability at their fingertips.

Every time ... you can save time and effort with a new but proven and reliable IBM system for data/document preparation ... a system that minimizes repetitious rewrites and retypings ... a system that speeds and simplifies data recording and entry by eliminating card punching, verifying and listing operations.

How? With the IBM Administrative Terminal System (ATS)—consisting of an IBM 1052 Printer-KeyBoard terminal linked to an IBM computer, the new Administrative Terminal System gives a writer complete control of his text—its format, its accuracy, its availability—regardless of his distance from the computer installation.

With ATS, a writer can transmit his information directly from the terminal's keyboard to computer files. Data is held in accessible storage while he proof-reads and edits what was typed on the terminal's printer while he was transmitting his information. He can key in editorial changes of any size; they will be accommodated automatically in the stored data. A comprehensive operating program speeds and simplifies the entry and editing of large amounts of data. The writer can obtain printed copies of the completed text whenever he wants them, or he can leave the data in computer storage for processing.

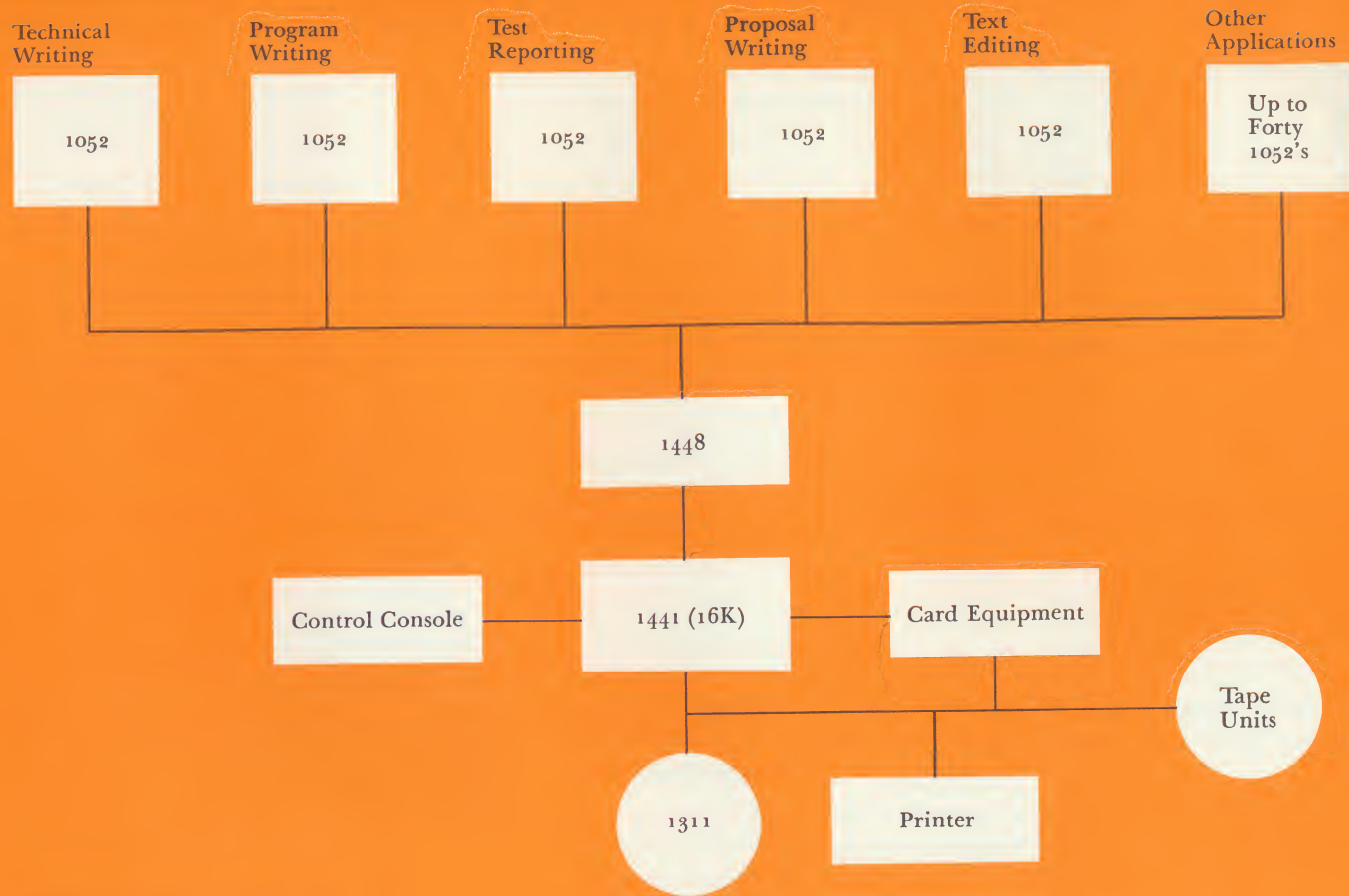
What is the IBM Administrative Terminal System? The IBM Administrative Terminal System (ATS) is a combination of an IBM 1050 Data Communication System, an IBM 1440, or 1460 Data Processing System, and the new ATS operating program.

What does it do? Through the use of ATS, up to 40 printer-keyboard (1052-1051) terminals can communicate directly with the 1440 or 1460. The computer can handle all 40 terminals and perform tape-to-printer and card-to-tape operations concurrently. Several terminal users can enter data simultaneously for the same application, such as program writing, or they can enter data for a number of different applications. For example, some can be working on program writing, while others are using the computer to perform text editing or to prepare manuals.

The ATS program simplifies the typist's job; for example, simple key combinations automatically initiate computer feedback and editing. The program makes it easy for people to learn how to use the printer-keyboard terminal... keeps training time and costs to a minimum.

Where can the IBM Administrative Terminal System be used? Any application that requires the availability of current records immediately after activity occurs can profit from the use of ATS. These include: Text editing; Engineering changes; Program revisions; Insurance coverage; Utility service; Government benefits; Student schedules; Medical records, and Loan status.





Configuration for a basic ATS

<u>U</u>	UNCONTROLLED	MODE
	JOB	PEARCE
START	SXA	RETX,4
	SXA	RETX-1,1
	SXA	RETX-2,2
	CAL	=0200000
	SLW	SCTWD
	STI	INDSV
	CAL	1,4
	PAI	
	STA	SPFRO
	STA	STTCM
	STD	STTCM
	CLA	2,4
	TMI	TLKST
	STA	SCTWD
	CLA	29
	TMI	SPTAP
SP3	LXD	STTCM,1
	SXA	SPCNT,1
	CLA	SPCNT
	TXI	**1,1,1
	SXA	SPCNT,1
	PAX	,4
	ADM	SPFRO
	STA	SPFRO
	AXT	0,2
SP1	AXT	4,1
	CAL	CARET+4,1
	SLW*	SCTWD
	TXI	**1,2,-1
	TIX	*-3,1,1
	AXT	6,1
	LDQ*	SPFRO
SP2	ZAC	
	LGL	6

Program listing
from ATS terminal

Practically every industry has applications with characteristics that can be expressed as problems made to order for ATS solution.

Here are a few:

Problem: Produce manuals, bills of materials or machine specifications that contain the latest engineering changes, new parts, new features, etc.

Solution: With ATS, a text is continuously stored on a disk file. The typist can make insertions, deletions and corrections in the text at any time—directly from any remote terminal typewriter in the system. When the complete text is printed out on a high speed printer, it is ready to be used for setting type or offset printing.

Advantages: Minimizes retyping of corrected drafts • Latest changes are reviewed on the keyboard printer • Prints out latest version of a text on request • Text can be changed right up to a deadline.

Problem: Minimize the time between the writing of a program and its availability for execution.

Solution: With ATS, the usual steps of coding, punching cards from a coding sheet, verifying punched cards, listing and editing are eliminated. Now, the programmer codes directly “on-line,” reads what he has written, corrects it and stores it on a disk file—without leaving his terminal. The program can then be transferred from the file to punched cards or magnetic tape for subsequent compilation and execution.

Advantages: Eliminates punching and verifying queues • Faster turn-around time between program writing and availability for execution • Increases each programmer’s creative productivity.



Problem: Update records as soon as possible after a transaction occurs.

Solution: With ATS, source data is keyed directly on-line to the computer. The previous record stored in the disk file is modified to reflect the new information. In addition, the terminal operator can have a printed copy of the original status and the new status of the affected record.

Advantages: Eliminates delays incurred by keypunching, verifying, card-to-tape conversion and tape sorting • Provides updated information to any remote terminal on request • For audit purposes, it provides printed copies reflecting old and/or current status of all affected records.

A closer look at the IBM ATS... A basic IBM Administrative Terminal System contains the following components:

IBM 1052 Printer-Keyboard (with IBM 1051 Control Unit) is the terminal at the user's location for data entry, editing and printing. It communicates directly with an IBM 1448 Transmission Control Unit in the computer installation. The 1052 can be linked to the computer via leased communication lines.

IBM 1448 Transmission Control Unit is used for data transfers and message control. It continuously monitors incoming lines and relays messages from each terminal to the computer.

IBM 1440, or IBM 1460 Data Processing System (Console, Central Processing Unit, Disk File, Printer) is under the control of the ATS program. It stores every keystroke of the sending terminals. At the direction of the user at the terminal location, it stores, edits and prints out completed texts. Tape units and more disk files can be added to the computer without affecting its data/document handling capabilities.



Edited text
and final copy

Keystrokes This is an Advanced Text Processing terminal.
~~Any text~~ previously entered can be retrieved on a
random-access basis. Corrections of any type to any
sentence in that text can be quickly made. Right
margin justification is an optional feature. ~~when~~
~~computer printout is requested.~~ *All controls are at the*
fingertips of the typist.

The important point, however, is that the
keystrokes have been captured and can be punched into
cards, ~~on~~ tape, conveyed via magnetic tape to another
computer, *written on* or transmitted to any other terminal on the
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cards, written on tape, conveyed via magnetic tape to
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ATS—more power for you...Although the IBM Administrative Terminal System is new, it is a proven system already in operation in IBM. It offers you a powerful tool that eliminates the tedious, repetitious steps of data/document preparation. Programmers, technical writers, secretaries...all can enter data or edit information easily by operating their own typewriters which are on-line to a computer. And...the data/document preparation can be done *at the same time* that the computer is performing tape-to-printer and card-to-tape operations.

For more details on ATS, contact your local IBM sales representative. He will be glad to help you determine how you can make the most profitable use of this dynamic new system.

ATIC MODE FOOTING MODE AUTOMATIC MODE NEXT NUMBER -- 6 STORED NONE SIGNAL WHEN
uc p35 2 g5 d5
E REQUIRED UNCONTROLLED MODE SIGNAL WHEN READY 5 UNITS "A" MODE DOCUMENT 5 **DE
h t7 a999 m ?
S HEADING MODE TRANSMITTED (MESSAGE) AUTOMATIC MODE 10 UNITS "U" MODE ILLEGAL AC
t a0001 5435 a n n c
PTABLE NUMBER READY TAPE AUTOMATIC MODE END YOUR UNIT NEXT NUMBER -- 23 CL
f a7 n s5 m j65
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